

US-PAT-NO: 6565718

DOCUMENT-IDENTIFIER: US 6565718 B1

TITLE: Magnetic recording medium with high  
density, thin dual  
carbon overcoats

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Brief Summary Text - BSTX (16):

Prabhakara et al., in U.S. Pat. No. 5,855,746,  
discloses a magnetic  
recording medium having a plurality of carbon-containing  
protective layers with  
an outer nitrogen-containing layer, wherein nitrogen is  
excluded from the  
initial carbon deposition for improved coercivity. Hwang  
et al., in U.S. Pat.  
No. 5,785,825, disclose a dual phase carbon overcoat  
including an initial  
amorphous carbon film on a magnetic layer and a doped  
amorphous carbon film  
sputter deposited on the amorphous carbon film. Lal et  
al., in U.S. Pat. No.  
5,714,044, disclose a magnetic recording medium containing  
first and second  
carbon overcoats, wherein the second carbon overcoat is  
deposited under a  
nitrogen-containing atmosphere. Onodera, in U.S. Pat.  
No. 5,607,783,  
discloses a magnetic recording medium containing single or  
plural  
carbon-containing protective layers with increasing  
hydrogen content. Nagao et  
al., in U.S. Pat. No. 4,869,797 disclose a method of  
sputter depositing a  
carbon protective layer with a bias voltage of -10V to  
-100V applied in the  
vicinity of the support and magnetic layer.

US-PAT-NO: 5718811

DOCUMENT-IDENTIFIER: US 5718811 A

TITLE: Sputter textured magnetic recording  
medium

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Detailed Description Text - DETX (11):

In conventional manufacturing practices, a plurality of substrates are provided on a pallet, and various layers of the magnetic recording medium sequentially sputtered thereon, e.g., underlayer, magnetic layer and carbon overcoat. Accordingly, in accordance with the present invention, the heat input to the substrate can be controlled by varying the pallet travel speed as it passes in proximity to a heating source, such as a quartz radiant heater.